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All the back part of this Child was covered with the *Omentum*; which was about two fingers thick, and stuck hard to divers parts of the Body of it, not to be separated without a Knife; which being done, very little blood issued. This Infant weighed Eight pounds Haverdupoise. The Skull was broken into several pieces. The Brain of the colour and consistence of Oyntment of *Roses*. The Flesh red, where the *Omentum* stuck, other parts whitish, yellowish, and somewhat livid; except the Tongue, which had the natural softnes and colour. All the inward Parts were discolour'd with a blackishness, except the Heart, which was red; and without any issuing blood.

The Forehead, Ears, Eyes and Nose, were cover'd with a Callous substance, as thick as the breadth of a finger: which being taken away, the parts appeared, as in the Figure.

The Gums being cut, the Teeth appeared in the adulthood of those in grown persons. The Body had no bad smell, though kept three days out of the Mothers Belly. The length of the Body from the Buttocks to the top of the Head, about 11 Inches. The Mother died about the Sixty fourth year of her Age.

An Account of some Books.

I. Johannis Wallisii, *S. T. D. in Celeberr. Academia Oxoniensi Geometriae Professoris Saviliani, Exercitationes Tres*: 1. *De Cometarum Distantiis investigandis.* 2. *De Rationalium & Fractionum Reductione.* 3. *De Periodo Julianae.* Londini, 1678.

Concerning the first, the Learned Author acquaints us, in the beginning thereof, That about fifteen or sixteen years since, it was proposed to himself by that excellent Mathematician Sir *Christopher Wren*, as a thing of use,

sc. To find out the Distances of Comets

*See Mr. *Hooks* Book, entitled, *Lectures and Collections*; or the Account of it hereafter given in these Transactions. from the Earth: and since then, hath been by him, * otherwise than is here, performed. To whom our Author then returned an Answer, *sc.* This same, which upon our Worthy Countrey-man Mr. *John Col-*

lins his request, he hath here published.

The

The Probleme he sets down thus;

Expositis in eodem Plano, quatuor Rootis positione datis, quintam invenire, quæ ab expositis ita fecetur, ut interjecta segmenta sint in ratione data. Whereof he gives the solution at large.

The second Treatise is designed also chiefly for the use of Astronomers; who often enquire, the mutual proportion either of the Parts of some one Planetary Systeme, or of any two Systemes. As also of the Distances and Magnitudes of Cœlestial Bodies. Which to give in the least Numbers, and so as to avoid greater Fractions, is a performance of as great use, as delight, and altogether new.

The Probleme, the Solution whereof taketh up the greater part of this Exercitation, is as follows, *vid.*

Expositâ Fractione quâvis (putâ ^{2.6.8.4.7.6.2} 8.3.7.6.3.7.1) Fractionem invenire, quæ sit vel Expositæ ^{æqualis}, si fieri possit; vel saltem, quæ Expositam vel proximè superet, vel ab eâ proximè deficiat, Denominatorem habens dato Numero non majorem: (putâ, qua numerum 999 non superet, seu tres locos non excedat:) si que in Terminis minimis.

For the doing of which, he first lays down his Method at large. Next, gives a summary of all the Rules. And then subjoyns several Examples in both the above specified Reductions.

To this he adds also, in the end, the way of finding out of the Proportion of the Diametre of a Circle to the Circumference: proposed in his own words thus, *vid.*

Ratio Diametri ad Perimetrum Circuli vero minor, sed continuè crescens; seu Perimetri ad Diametrum vero major, sed continuè decrescens; donec intra assignatos terminos consistat.

The last Treatise containeth the Solution of this Probleme, *vid.*

Exposito Anno, qui sit, verbi gratia, in Cyclo Solari, Annus 22, Lunari, 14, Indictionum, 7: quæritur, quotus sit ille Annus Periodi Julianæ.

II. Martini Lister è Societate Regia, Londini, *Historia Animalium Angliæ tres Tractatus. Unus, de Araneis. Alter, de Cochleis tum Terrestribus, tum Fluviatilibus. Tertius, de Cochleis Marinis. Quibus adjectus est quartus, de Lapidibus ejusdem Insu& ad Cochlearum quandam imaginem figuratis.* Londini, apud J. Martyn Reg. Soc. Typogr. 1678.

The Learned Author, in his Preface, acquaints us, amongst other things, with the great care he took in preparing his Observations for this Work. Principally designing herein a most exact distribution of the kinds of those Animals whereof he Treateth, into their several sorts. To the end, that what ever Experiments or Observations shall be made by others hereafter of these Animals, worthy publishing, they may hereby be referred to their proper places.

The first Tract containeth two Books. The former whereof treateth of *Spiders* in general. As a description of their several Parts, both outward and inward. Of their Generation. The Nature and Emission of their Thred. Casting their *Cuticle*. Of their Food. Venom. Several either false or dubious Traditions concerning them. Medicines made of them.

The Second Book containeth a distribution of *Spiders* into their several species, as followeth in the Authors own Table.

Aranei	Oeotoculi,	Aucupes ; qui, Muscas capiendi causâ tenu- dunt	Reticuli	Scutulata Antiquis dicta ; scil. universis maculis in eodem plane dispositis, in modum Scuti sive Orbitæ.
				Conglobata ; scil. maculis crebris in omnes in circuitu dimensiones procedentibus.
Aranei	Oeotoculi,	Venatorii ; qui aperto marte Mascas insectantur, cum tamen alias texere possunt ; nimis ad Nidificationem, & ad hyberna.	Telas linteiformes ; scil. Reticulorum filis densè inter se contextis in modum Veli sive Panniculi.	Telas linteiformes ; scil. Reticulorum filis densè inter se contextis in modum Veli sive Panniculi.
				Lipi, propriè sic dicti.
Aranei	Oeotoculi,	Phalangia, s. Aranei Pulices affultim ingredientes.	Canceriformes.	Canceriformes.
				Binoculi, ferè longipedes, Opiliones quibusdam dicti, Telis digitatis sive forcipatis, Cancrorum more armati.

Under which, he hath also some other Subdivisions, made afterwards, in their several proper places. Of

Of all which he likewise exhibits the Figures, sets down the Descriptions, Place, Time of Laying, Manner of Coition. Describes their Eggs, Nests, Nets, Threds. Speaks of their Food and manner of Living, very high ascent into the Air, &c. The Work containing many curious Observations, not only out of our Country-man *D. Mouffet*, and other Learned Authors, but of his own likewise, and such as are altogether new.

The Second Tract hath Three Parts. The first of *Snails* in general. As of their Shells, and other parts both outward and inward. Their *Saliva*, Eggs, Food, Use in Medicine. Diet, &c. The second of *Land Snails*. The third of *River Snails*. The several sorts whereof are figur'd, described, and comprized by the Author within the following Table.

		<i>Testaceæ, seu Testis concrectæ.</i>
		<i>Breviore figura, Testæ Apertura clausa Operculo, è Saliva confecta, ad hyemem Operculo testaceo.</i>
	<i>Terrestres,</i>	<i>Turbinatæ,</i> <i>Longiore figura. sive Buccina; convolute à Dextra versus sinistram,</i> <i>à Sinistra versus dextram.</i>
		<i>Compressæ.</i>
		<i>Nude, Limaces quibusdam dicte.</i>
<i>Cochleæ</i>		<i>Validiore Testa, Operculo testaceo clausa.</i>
		<i>Tenui, pellucida, semper apera; convolute à Dextra in sinistram.</i> <i>à Sinistra dextram versus.</i>
	<i>Fluviatiles,</i>	<i>Compressæ Testa, Coccum fundentes.</i>
		<i>Bivalves, Musculi quibusdam dicte.</i>
		<i>Univalvis, Patella dicta.</i>

The Third Tract is of *Sea-Snails*, which by the Author are figur'd, and distributed into the following Table.

<i>Cochleæ Marinae</i> <i>Bivalves,</i>	<i>Turbinate,</i> <i>Orbes non habentes,</i> <i>Echinus dicitur.</i>	<i>Testæ apertura cavaliculata, Buccina rostrata</i> <i>dicta.</i> <i>Leves.</i> <i>Striate.</i>
	<i>Ex omni parte arde clusiles.</i>	<i>Plana Apertura.</i> <i>Figura productione.</i> <i>Breviore.</i> <i>Cochleæ formes.</i> <i>Umbone minimè omnium extante,</i> <i>Neritæ dicitur.</i> <i>Basi lata & plana, Trochi dicitur.</i>
<i>Non Striate.</i>	<i>Omnium patentissima, i. e. Auris marina.</i> <i>In angustam rimam formata, i. e. Concha Veneris.</i>	
<i>Striate.</i>	<i>Conchæ.</i> <i>Asperæ, valvis dissimilibus, Ostreæ dicitur.</i> <i>Setiferæ, Musculi dicitur.</i>	
	<i>Auritæ, Valvis dissimilibus, Peduncles.</i> <i>Non Auritæ, Valvis equaliter concavis, Pedunculi.</i> <i>Minus concava, Tellina quibusdam.</i>	
	<i>Altera aut utraque parte semper biantes.</i>	<i>Leves.</i> <i>Striate.</i>
	<i>Univalves,</i>	<i>Locomobiles vertice integro, Patella.</i> <i>Fixæ, vertice aperto, Balani.</i>

The last Book de *Cochlitis Angliae*, presenteth the Figures and Descriptions of as many as are contained in this Table, *vid.*

Cochlitæ Angliae	Turbinati,	Intorta, S. anfractuosa.	Quorum Orbæ in se convoluuntur, <i>Cornua Ammonis.</i>
			Utrinque ad Umbilicum æqualiter concavi.
Bivalves,	Leves,	Qui Helicem, sc. Volutam non habent.	Striati.
			Læves.
Leves,	Leves,	Striati subrotundi, ut Ecbinite.	Ex alterâ tantum parte.
			Umbilico utrinque prominulo.
Leves,	Leves,	Striis in omnes partes æqualiter procedentibus.	Buccinorum in modum producuntur.
			Striis inæqualiter procedentibus.
Leves,	Leves,	Leves in acumen fastigiati, ut Belemnite.	Læves in acumen fastigiati.
			Utrâque Testâ æqualiter concavâ.
Leves,	Leves,	Leves, <i>Ostracite.</i>	Figurâ ex alterâ cardinis parte diffusiore.
			Ex utrâque parte æqualiter diffusi.
Leves,	Leves,	Leves, <i>Conchite rostrati.</i>	A cardine ad imum marginem producuntur.
			Ventricosi, quibusdam Bucardite.
Leves,	Leves,	Leves, <i>Auriti, Peclinitæ.</i>	Testis inæqualibus.
			Sine auribus, Peclunculite.

The Author in his Preface to this last Book, inclines to their Opinion, who take not these figur'd Bodies for Petrified Shells, but to be bred like other Stones, in the Earth. For which he offers some Arguments either not, or less insisted on by others,

These three last Books are composed with the same accurateness as the former.

III. *Lectures and Collections made by Robert Hooke, Secretary of the R. Society. Printed for J. Martyn, Printer to the R. Society, 1678.*

The Work is divided by the Learned Author into two Parts. The first is called *Cometa*; containing, besides Observations of the Comets of 1664, 1665, and 1677, discourse also on Comets in general. As amongst other particulars, of the Head, *Nucleus*, and *Blaze*. That this is not always opposite to the Sun. Their Magnitude, Substance; thought, by the Author, loose and confusible; as from the variation of the Magnetical direction, he supposeth that also of the inner parts of the Earth to be. Density, Mutability, Dissolution, Fluidity, Gravity, Light, Figure, Motion, whether bended or strait, with equal or unequal velocity, &c. A Digression of the method of Speculating the great and first Principles of the Universe. Theory of Comets, as to Parallax hitherto defective. What the World expects from Mr. *Hevelius*. Parallaxes arising from Hypotheses of the proper motions either of the Earth, or Comet, or both together consider'd, arise to a certainty of the Magnitude of Comets: others, depending on other suppositions, not. Allowing inequality of Motion, and more compounded Curve Lines, nothing can be determin'd. A gravitation towards the Sun, makes out the Motion of the Comet, and direction of the Blaze. Comets waste in the *Æther*, which is as a Menstruum to dissolve them. The way of enquiring Parallax by Telescopes further explain'd. A second way by too Observers at a distance propounded: A third way of Sr. *Christ. Wren*, his Majesties Surveyor General, set down and demonstrated by a Geometrical Probleme, an Invention altogether new. And how exactly all the Observations he had of the above-said Comets, were made out by it: together with his own Schemes. Communicated Febr. 166⁴.

Speaking of the nature of the *Blaze*, introduceth a Discourse of the Honourable Mr. *Boyle*, sc. A Memorial of some Observations made upon an Artificial substance, in the possession of Mr. *Craft* a famous German Chymist, that shines without any precedent illustration. Wherein, amongst other particulars, is observed, that two spoonfuls of matter did enlighten a large Glass-sphere. Liquor shaken, had a smoke and

and flash'd. A dry substance, affirm'd to have continued shining two years, flash'd. Seemed to partake of the odor of Sulphur and of Onions. It fired Gunpowder first warmed, And a White paper, held a considerable distance over Coals. To which are added some Experiments on the *Phosphorus Baldini* in *vacuo*, and in the open Air.

To these are added Mr. *Galler's Apparatus* for observing ☉ in ♀, and his observations of 4 Spots in ☉; contained in a Letter to Mr. *Cassini*. Mr. *Cassini's* reflexions hereon. And his further discoveries about the motion of *Jupiter* upon its own Axis, and several new Appearances of that Planet. Together with Mr. *Hally's* Observat. of ♀ sub ☉. Three Southern Stars never visible in *England*. And the 2. *Nubecula*, called by Sailors, the *Magellanick Clouds*; in a Letter to Sir *Jonas Moore*.

The Second Part is called *Microscopium*. In which, two Letters from Mr. *Lewenhoeck*, containing further Observations of the little Animals, of several kinds, bred in Water, after the infusion of *Pepper*. Likewise of the Particles of Blood, Milk, Phlegm, Gums dissolved and precipitated. The manner how the same were also seen at the Meetings of the *R. Society*. As also how to find the figure and texture of Animal and vegetable parts. A description both of double and single *Microscopes*; and how they are to be used. Of the like little Animals (as above) bred upon steeping other Grains in Water, as well as *Pepper*.

Hereto is added a Relation of the Symptoms following the slipping of a Leaden bullet into the Wind-pipe of a certain person, and there sticking till his death, which hapned not before some years after. Together with what was observable in his *Lungs* upon Dissection; in a Letter from Mr. *James Young*, an experienced Chirurgeon in *Plimouth*.

To the whole Book are added Five Tables of Figures. *An Advertisement of the Monthly continuation of the Mechanick Exercises*; by Mr. *Joseph Moxon*.

THe Ingenious Author having begun and continu'd his three first Months Exercises on *Smithery*: in these three next, he gives an account of *Joyner*.

In the first, a description of some Tools. Then of Setting the Iron. Of the Joynter. The Strike Block. The Smoothing Plain. Rabbet Plain. The Plow. Molding Plains. Grinding and Whetting